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LANE 1: MOLECULAR WEIGHT MARKER LANE 2: C.jejuni Co1-8 LANE 3: C.jejuni Co1-119, LANE 4: C.jejuni Co1-126 LANE 5: C.coli Co1-192 LANE 6: C.coli Co1-243

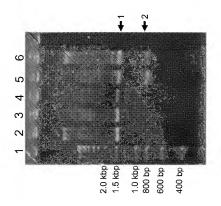
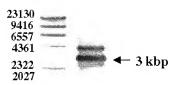


FIG. 1

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FIG. 2

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LANE 1: MOLECULAR WEIGHT MARKER LANE 2: C. jejuni Co1-8 LANE 3: C. jejuni Co1-119 LANE 4: C. jejuni Co1-126 LANE 5: C. coli Co1-192 LANE 6: C. coli Co1-243



FIG. 3

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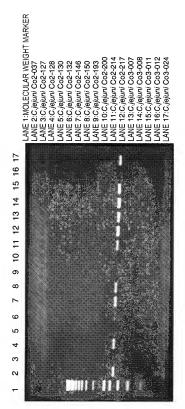


FIG. 4

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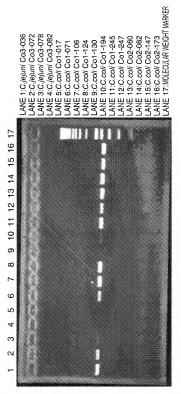


FIG. 5

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LANE 1:MOLECULAR WEIGHT MARKER
LANE 2: C. coli Co2-215
LANE 3: C. coli Co2-218
LANE 4: C. coli Co3-134
LANE 5: C. jejuni Co1-8
LANE 6: C. coli Co1-192
LANE 7: C. fetus Co1-187
LANE 7: C. fetus Co1-187

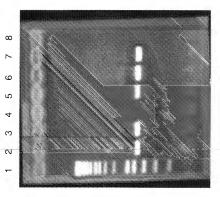


FIG. 6

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LANE 1: MOLECULAR WEIGHT MARKER LANE 2:C. jejuni Co1-8 LANE 3:C. jejuni Co1-19 LANE 5:C. jejuni Co1-126 LANE 5:C. coli Co1-192 LANE 6:C. coli Co1-243 LANE 7:C. fetus Co1-187 LANE 8:C. fetus Co1-99

↑ ↑ 750bp L 400bp

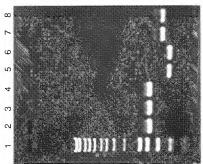


FIG. 7

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ANE 1:MOLECULAR WEIGHT MARKER	LANE 18:C.coli Co1-071
ANE 2:C. jejuni Co2-037	LANE 19:C.coli Co1-106
ANE 3:C. jejuni Co2-128	LANE 20:C.coli Co1-124
ANE 4:C. jejuni Co2-132	LANE 21:C.coli Co1-194
ANE 5:C. jejuni Co2-146	LANE 22: C. coli Co1-245
ANE 6:C. jejuni Co2-150	LANE 23: C. coli Co1-247
ANE 7:C. jejuni Co2-193	LANE 24: C. coli Co2-060
ANE 8:C. jejuni Co2-200	LANE 25: C. coli Co2-082
ANE 9:C. jejuni Co2-214	LANE 26: C. coli Co2-147
ANE 10:C. jejuni Co2-217	LANE 27: C. coli Co2-173
ANE 11:C. jejuni Co3-007	LANE 28:C. coli Co2-215
ANE 12:C. jejuni Co3-008	LANE 29: C. coli Co2-218
ANE 13:C. jejuni Co3-011	LANE 30: C. jejuni Col-8
ANE 14:C. jejuni Co3-024	LANE 31: C. coli Col-192
ANE 15:C. jejuni Co3-036	LANE 32: C. fetus Col-187
ANE 16: C. Jejuni Co3-072	LANE 34: MOLECULAR WEIGHT MARKER
ANE 17:C. jejuni Co3-078	

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18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

9 10 11 12 13 14 15 16 17 ω 9 Ю 4 ന N

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42:E coli JM109

ANE

ANE 20:C. jejuni Co3-078

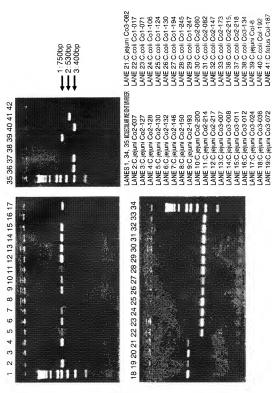


FIG. 9

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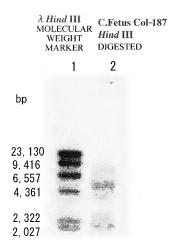


FIG. 10

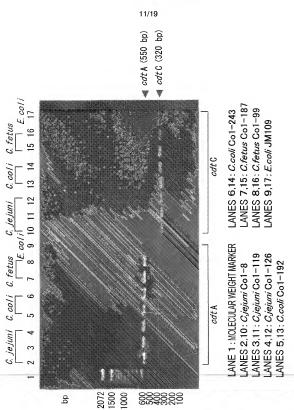
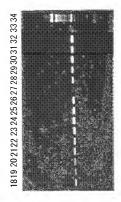


FIG. 11

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	LANE 23: <i>C.coli</i> Co1-071 LANE 24: <i>C.coli</i> Co1-106	LANE 25: C.coli Co1-124	LANE 25: <i>C.coli</i> Co1-130 LANE 27: <i>C.coli</i> Co1-194	LANE 28: C.coli Co1-245	LANE 29: C.coli Co1-247	LANE 30: C.coli Co2-060	LANE 31: C.coli Co2-082	LANE 32: C.coli Co2-147	LANE 33: C.coli Co2-173	LANE 36: C.coli Co2-215	LANE 37: C.coli Co2-218	LANE 38: C.coli Co3-134	LANE 39: Cjejuni Col-8	LANE 40: C.coll Col-192	LANE 41: C. fetus Col-187	LANE 42: <i>E.coli</i> JM109
LANE 2: C.jejuni Co2-037	LANE 3: <i>Cjejuni</i> Co2-127 LANE 4: <i>Cjejuni</i> Co2-128	LANE 5: Cjejuni Co2-130	LANE 7: Cjejuni Co2-132 LANE 7: Cjejuni Co2-146	LANE 8: C.jejuni Co2-150	LANE 9: Cjejuni Co2-193	LANE 10: Cjejuni Co2-200	LANE 11: Cjejuni Co2-214	LANE 12: C.jejuni Co2-217	LANE 13: Cjejuni Co3-007	LANE 14: Cjejuni Co3-008	LANE 15: C.jejuni Co3-011	LANE 16: Cjejuni Co3-012	LANE 17: Cjejuni Co3-024	LANE 18: Cjejuni Co3-036	LANE 19: C.jejuni Co3-072	LANE 20: Cjejuni Co3-078

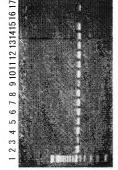




FIG. 12

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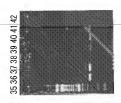


ANE 21: C.jejuni Co3-082 ANE 41: C. fetus Col-187 JANE 22: C.coli Co1-017 ANE 23: C.coli Co1-071 LANE 24: C.coli Co1-106 LANE 25: C.coli Co1-124 LANE 26; C.coli Co1-130 LANE 27: C.coli Co1-194 LANE 28: C.coli Co1-245 LANE 29: C.coli Co1-247 LANE 30: C.coli Co2-060 LANE 31 : C.coll Co2-082 LANE 32: C.coli Co2-147 LANE 33: C.coli Co2-173 LANE 36: C.coli Co2-215 LANE 37: C. coli Co2-218 LANE 38: C.coll Co3-134 ANE 40: C.coli Col-192 ANE 39: C.jejuni Col-8 E.coli JM109 ANES 1,34,35: MOLECULAR WEIGHT MARKER

ANE 10: Cjejuni Co2-200 ANE 11: Cjejuni Co2-214 ANE 12: C.jejuni Co2-217 ANE 13: C.jejuni Co3-007 ANE 15: Cjejuni Co3-011 ANE 16: C. jejuni Co3-012 ANE 17: Cjejuni Co3-024 ANE 18: Cjejuni Co3-036 ANE 20: C jejuni Co3-078

ANE 14: Cjejuni Co3-008

ANE 19: C. jejuni Co3-072



ANE 2: C.jejuni Go2-037 ANE 3: C. jejuni Co2-127 ANE 4: Cjejuni Co2-128 ANE 5: Cjejuni Co2-130 ANE 6: C. jejuni Co2-132 ANE 7: Cjejuni Co2-146 ANE 8: Cjejuni Co2-150 ANE 9: Cjejuni Co2-193

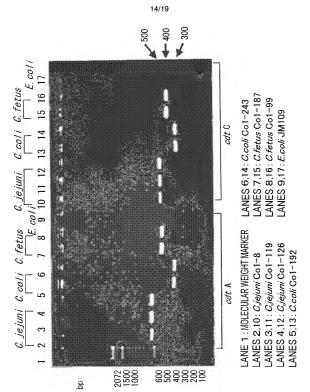


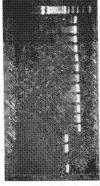
FIG. 14

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ANE 24: C. coli Co1-106

LANE 25: C.coli Co1-124

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ANE 21: C. jejuni Co3-082 ANE 22: C.coli Co1-017 ANE 23: C.coli Co1-071 ANE 3: Cjejuni Co2-127

ANES 1,34,35: MOLECULAR WEIGHT MARKER ANE 2: Cjejuni Co2-037 LANE 26: C.coli Co1-130 LANE 27: C.coli Co1-194 ANE 28: C.coli Co1-245 LANE 29: C.coli Co1-247 LANE 30: C.coli Co2-060 ANE 31: C.coli Co2-082 ANE 32: C.coli Co2-147 LANE 33: C.coli Co2-173 C.coli Co2-215 ANE 37: C.coli Co2-218 ANE 38: C.coli Co3-134 ANE 36: ANE 6: C.jejuni Co2-132 LANE 7: Cjejuni Co2-146

ANE 10: Cjejuni Co2-200 ANE 11: C.jejuni Co2-214 ANE 12: C.jejuni Co2-217 ANE 8: Cjejuni Co2-150 LANE 9: C.jejuni Co2-193

ANE 13: Cjejuni Co3-007 .ANE 14: C.jejuni Co3-008

ANE 16: C.jejuni Co3-012 ANE 18: C.jejuni Co3-036 ANE 17: Cjejuni Co3-024 LANE 15: C. jejuni Co3-011

ANE 41: C. fetus Col-187

ANE 19: C. jejuni Co3-072 20: C. Jejuni Co3-078

-ANE 39: C.jejuni Col-8 LANE 40: C.coli Col-192 42: E.coli JM109

ANE 4: Cjejuni Co2-128 -ANE 5: C.jejuni Co2-130

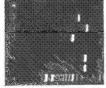


FIG. 15

ANE 27: C.coli Co1-194 ANE 28: C.coli Co1-245

ANE 25: C.coll Co1-124 ANE 26: C.coll Co1-130

LANE 5: Cjejuni Co2-130 LANE 6: C.jejuni Co2-132 LANE 7: Cjejuni Co2-146 LANE 8: Cjejuní Co2-150

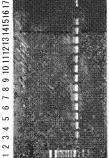
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ANE 21: C. jejuni Co3-082 ANE 22: C.coli Co1-017 JANE 23: C.coli Co1-071 ANE 24: C.coli Co1-106 ANES 1,34,35: MOLECULAR WEIGHT MARKER LANE 4: Cjejuni Co2-128 LANE 2 : *C. jejuni* Co2-037 LANE 3: Cjejuni Go2-127

ANE 41: C. fetus Col-187 ANE 30: C.coli Co2-060 LANE 31: C.coli Co2-082 LANE 32: C.coli Co2-147 ANE 33: C.coll Co2-173 ANE 36: C.coli Co2-215 ANE 37: C.coli Co2-218 ANE 29: C.coli Co1-247 ANE 38: C.coli Co3-134 ANE 40: C.coli Col-192 ANE 39: Cjejuni Col-8 LANE 10: Cjejuni Co2-200 LANE 11: C. jejuni Go2-214 LANE 12: *C. jejuni* Co2-217 LANE 13: *C. jejuni* Co3-007 LANE 14: Cjejuni Co3-008 LANE 15: C.jejun/ Co3-011 LANE 16: C.jejuni Co3-012 LANE 17: Cjejum Co3-024 LANE 18: C. jejuni Co3-036 LANE 19: C. jejuni Co3-072 ANE 20: C. jejuni Co3-078 LANE 9: C. Jejum Co2-193

ANE 42: E.coli JM109



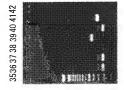


FIG. 16

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C. ieiuni cdt ORF ATGCAAAAAATTATAGTTTTTATTTTATGTTGTTTTATGACTTTTTTTCTTTATGCATGTTCTTCTAAATTTGAAAATGT AAATCCTTTGGGGCGTTCATTTGGAGAATTT, GAAGATACTGATCCTTTAAAACT, AGGACTTGAACCTACTTTTC, GCT ACCAATCAAGAAATTCCAAGTTTAATTAGCGGTGCTGATTTAGTACCTATTACCCCTATTACCCCACCTTTAACTAGAAC AAGCAATAGTGCCAACAATAATGCAGCAAATGGGATCAATCCTCGCTTTAAAGACGAAGCTTTTAATGATGTTTTAATTT TTGAAAATCGCCCTGCGGTTTCTGATTTTTTAACCATTTTAGGCCCTAGCGGAGCAGCTTTAACGGTTTGGGCTTTAGCA CAAGGAAATTGGATTTGGGGCTATACTTTAATCGATAGCAAAGGATTTGGCGATGCTAGAGTTTTGGCAACTTTTGCTTTA TCCTAATGATTTTGCAATGATTAAAAATGCCAAAACCAATACTTGTCTTAATGCTTATGGTAATGGAATTGTCCATTATC CTTGTGATGCAAGCAATCACGCACAAATGTGGAAACTTATCCCTATGAGCAATACAGCGGTTCAAATTAAAAATTTAGGA AATGGAAAAsTTGCATACAAGCACCTATTACAAATCTTTATGGTGATTTTCACAAGGTTTTTAAAATTTTTACCGTAGAG TGTGCAAAAAAGATAATTTTGATCAACAATssGGTTTTTAACTACTCCGCCTTTTTACCGCA11AAACCTTTATATCGCCA AGGAGAGGTACGATGAAAAAATTATATGTTTATTTTTATC17TTTAACCTTGCTTTTGCAAATTTAGAAAATTTTAAT GTTGGCACTTGGAATTTGCAAGGC, TCATCCGCAGCCACAGAAAGCAAATGGA18GTGTTAGTGTAAGACAACTTGTAAGT GGAGCAAACCCCTTAGATATCTTAATGATAC26AAGAAGCAGGAACTTTACCAAGAAC20AGCCACTCCAACAGGACGCCC19 $ATG\underline{TGCAACAAGGTGGAACACC}_{27}TAT\underline{TGATGAATATGAGTGGAATTTAGG}_{20}AACTCTTTCAAGGCCTGATAGGGTTTTT$ ATTTATTATTCTCGCGTTGATGTAGGAG_ACTAATCGTGTAAATTTAGCTATAGTTTCAAGAATGCAAGCTGAA21GAAGT GATTGTTTTACCTCCACCTACTACAGTTTCAAGACCCATTATAGGAATTCGCAATGGAAATGATGCT<u>TTTTTCAATATCC</u> ATGCTTTAGC ... TAATGGAGGAACAGATGTAGGAGCAATTATCACAGCTGTAGATGCACA., TTTTGCAAATATGCCTCAA GTTAACTGGATGATAGCAGGGGATTTTAA50CCGTGATCCTTCTACTATAACAAGT23ACAGTGGATAGAGAATTAGCAAA ATA, GACAACAAACCTATACTC CACCGCTTTTAGCTGCGATTTTAATGCTTGCAAGTTTAAGATCTCATAT, SAGTTTC $AGAT \underline{CATTTTCCAGTAAATTTTAGA_{10}} AAATTTTAGGACATTTAATATGAAAAAAATTATTACTTTGTTTTTTATGTTTA$ ${\sf TAAC} \underline{\sf TTAGCCTTTGCAACTCCTA_{74}CTGGAGATTTGAAAGATTTTACCGAAATGGTTTCTATAAGAAGCTTAGAAACGG}$ GAATTTTTTTAAGCGCCTTTAGGGATACCTCAAAA.GGATCCTATTGATCAAAATTGGAATATTAAAGAAATTGTTTTAA CATCTTTCTTTAGCCATCTTAGAAGATGGAACCTTTGGAGCAAAATCTTGTCAAGATGATCTAAAAGATGGTAAATTAGA AACTGTATTTCTATAATGCCAACAACAACTTCAGCTGTGCAAATTCGTTCTTTAGTTTTGGAATCTGATGAATGTATAG TAACTTTTTTTAATCCAAATATTCCTATACAAAAACGCTTTGGAAgTAGCGCCCCTTGCACCCTAGATCCTATTTTTTTT GCTGAAGTAAATGAACTAATGATTATAACCCCACCTTTAACAGCTGCTACCCCTT₂₅TAGAATAA

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C. coli cdt ORF ATGCAAAAAATAAAATTAAGCCTAATGTTTTTGATTGTAACAATCATTTTTTTAGCTTGTTCTTCAAAAGAACAACAAAT CAATCCTTTAGGAAGATCTTACGGTAAATTT ... AACGATAACGATCCTTTAAAACT .. TGGTTCAAAACCTACACCCCCTG TCAAACAAAAAACACCAAGCTTGGTAGAAGGTAAAAAATTTCCCGCCATACCACTTGTCCCACCTGTAATCACTCCTAAT ACCITIAAAGGAGATAATGCCGTCAAAGGCCCATTGCCAAGGCTAAAATCTC~,CAAACGAATTTGCTTCAAATGCTTTA TACGAAAACACAGGTATGGTAAGTGATTTTGTCACTATTATGAATCCTAATGGAGCATCTTTAACAATCTGGGCTTTAAA TCCTGGCAATTGGATATGGGGATATAGTTTATTTGCTAGTAGACCTTTTGGAGATGCAAGAGCTTGGCAGCTTATTGAAT TTCCAAACAATACAGTAATGATTAAAAATGCAAAAACATTTACTTGCTTAAACGCCTATAGAAATGGCATCGTTCATTAT CCTTGTGATCAAACAAATTTTGCGCAGTTTTGGAGACTTTATC71CGATGACTAATGGAGCTTATCAAATTCAAAATTTT ACCGATTGTTTGAAAGAAAAAGAAATTTGGATAGACAGTGGTATATAGGCGCTCCTATTTAATTTTTTCGCTATGA CGGAACTTGGAATTTGCAAGGCoTCATCAGCTGCAACTGAAAGCAAATGGAATGTTAGTATAAGACAACTCATAACCGGT GCAAATCCTATGGATGTTTTAGCTGTTCAAGAAGCGGGGGTTTTACCTAGTACAGCTATGATGACTCCTAGACAGGTACA ACCCGTGGGCGTGGGTATTCCTATACATGAATACATATGGAATTTAGGCTCTGTATCAAGACCTAGCTCTG:aTTTATAT ATATTATTCTAGAGTGGATGTAGGAGCAAATCGTGTGAATTTAGCTATCGTTAGCAGAGTGCAAGCGGATGAAGTTTTTG TTTTACCCCCTCCAACAGTTGCTTCAAGACCTATTATAGG31CATACGCATAGGCAATGA12TGCTTTTTTCAATATACAC GCTCTAGCAAGTGGGGGAAATGACGCAGGAGCCATTGTCGCTGCT32GTGGATATGTTTTTTAGAAATAGACCTGATATT TCG:2CGTAGTTGTTCCGCCTTCTT26CTACGCAAACAAGTGGAAGAACGATTGATTATGCTATCACTGGAAATTCCAACA CTGCAGCTTTATACAACCCACCACCGATAGTT28GCGATTTTAGCTTTAGAAGGATTAAGAACCTTTTTGG34CTTCAGAT CATTTTCCTGTAAATTTTAGA10AGACCTTAGGAGCTTAATATG35AAAAAATTTTTTATTTTATTTTTTGCCCTTTTGAG CTTTTTGAAAGCAGAGCCTAGCTTGGATGAATTAGCAGACTTTACTCCTATGTTTGCTATAAGATCTTTAGAAACAGGAA TTTCTTTAAGTCCTTTTAGAAAAACTTCAAAAGAGGTTAGAAGATCAAAATTGGTTTTTTAAAAGAGATTGTAGCAAATG ATGAGCTAAAAGCTAGGGATATGCACGCAAAAGA76TTTGCCTTTTGGCTATGTTCAGTTTATAAGCCCTAGGGGCGATG ATATATGCCTACCTCTTTTAAGTGAAAAAAGTTTTCGCACCAAATCTTGCAAACAAGATTTGCAAGATGGAACAATGCAG CACTITICCTGACTCTAGTATCGCCATAGAAAATCGCTTsTGGTTTAGGsJAGAATGCCTTTTGGATCGTTCTATCGTAA CTGTATTAAGC77AAACTTTTCTTTTTCTCCCCTGCTATAATCGAAGCAAGCGCAATTTACTAA

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C. fetus cdt ORF

AAAAACGACAAATGTAAGCACTC;;;AAAAAATAAATCCATTAGGAAGCATTTTTGGCAAAACG;;GATGATCCAGATCCAC TAAATTTAGGCGATTTTCCAACTCTTCTAACATCAAATTTTACAAATCCTATGCCGACTAGAACGCCATCGCCACTTAA AAAAGTGGATTTGCCTGTAATGAACTCATTAACACATGGTCCGATGTTTTCAAGTGCTTTTAGTAAACCGGACTTGAATT TCAAACAACCTACTATCAGTCTACAAGGTATCCCGCCTGATCTATTTGATAGAACAAGCGATTTTATGGTGATAATGGGT GCAAACGGCGTTGTGATCACTATTTGGTACACATCTCCTGGAAACTGGTTATGGGGCTACTCGCTCTATGAAAGCGGCAA TTTAGGAGGATATCGTGTTTGGCGTCTAATTTTACTACCAAATAATGAAGTCATGATAGTAAATTTCAACACTCGCACGA CTTGCATAAATA23CTTATAAAAACGGAGTAATTCACTCACCTTGCAATAAAGATAATCCTTTTCAGAAATTTACGTTTC GTCCAATGACAAACGGAGCCGTACAAATTTATAACAAAGCTACTAATTGCG₆₅TGCTTGCAAACGCCTGTTAATAATCTA TTCGGTTTTGACGTTTTTGGGGCGATAAATCTTACGACAAAATGCACTGATACTATCGATCAACAATGGTATTTGCTCCC GCCGCCGCAAGTTGGAAGACTAT;cTTTATTAGGAGTAAAAATGCGAAATGTTATTATGATTATATTTATAGCAACTTTA GGC38TTTGCAAAACCAGAAGATTATAAAATTGCTACTTGGAATTTGCAAGGC3AGTTCGGCTATAACCGAAAGCAAATGG A47ATATAAGCGTACGTCAAATAATTAGCGGTGAAAATCCAGCAGATATATTAGCCGTTCAAGAAGCAGG<u>AAATTTACCT</u> CAAACCGCTCTTC39CTACAGGTAGAAGCATAAATCAAGGCGGCACGATC40GTAACTGAGCATTTATGGCAGCTAGGCAG TATATCTAGACCGTTCCAA..GTCTATATATATTATGCTCAAATCGACACAGGGGCAAATAGAGTAAATTTAGCAATCGT TTCACGCATAAAAGCTGATGAAATCATCATCTTGCCGCCTCCT...ACGGTAGCTTCTCGTCCGCTCATAGGTATAAGAAT AGGAAACGACGTATTTTTCAACATACACGCTCTAGCAAATGGCGGAGTCGATGCTCCGGCGATAATAAA,sTTCAATATT TGACAGATTTAGAAATATGCCAAATATCACTTGGATGATTTTAGGCGATTTTAACCGCTCACCTGAGAGTTTAAGA. AACTCTTGGATTAGAAACTC...GCGTCAGAGTAACGTTTTTAACA...CCTCCGGCGCCCTACTCAAAGAAGCGGCGGAACGC TTGACTGGGCTATAGTTGGAAACTCAGCCGGCGATCTTGTCCGAAC45TACGCTTGTAGCAGTATTGATGCTAGCAAACC TGCGGACTCACCTA46GTTTCGGACCATTTTCCGGTAAATTTTAGA10AAATTTGGAGATAACTAATGAAAGCTTTAGCAA TAATATTTTTATTTGTAAGCATAAGTTTTGCAAACG₇₈AAAACATAACCGACGCTTTTCAAATACGCAATGCAAACACCG GAATTCCTATAAATATAAAGCGATTTTCAGGGGACAGTTTAATTACCAAAACTGGTTTTTTAAATGATTTAGGAGTAGATC CTAAGATAAAAAAAGTAGATAAATTTTCAAATTCTTTTCCTTTTGGATACGTGCAATTTCAAGTAGCAGCCGACGTAAAA CATTTGAAAATCCAAAC79GTGCCGATCGAAGATAGAGTAGGACTAGT87ACGCTGCGTTTTAGAATTTTTTGTCGACATA GAGCCTAAACAACTTTTTGTATTTTCACCGCCGCTTAGTGAAGCTAAGGTAATTAGATAA